

High Performance Computers

Lab Test:

Snazzy New Systems Are Pumped For Power... and

Report: Condex/Pag Rim '97 Opportunity, And Optical Storage PC Games Are Hot!

Getting The Lease You Need





picture is worth a thousand words. specially when your monitor shows all of them.

ng a 21" display for the price of a 17" monitor, its vertical viewing



































Growing Your Business

Is our business So is supplying the best selection of mass storage products. The choice is clear, call EMPAC.



VIA ENERGY ...

-800-TO-EMP4

Citi year EPSING valor asymmetric for more information.

EBRUARY 9

CONTENTS

CONDEX/PACRIM '97 Vencouver Shints as Gatowey To The For East	x
Show Yinlds Whole Crop Cf New Products	21

6 Proc Direct
OPTICAL STORAGE
The Optical Storage Market Westing For the Millermann 26

This Collect Storage Market. Westing Far the Millennium 26
to Act Those

LAB TEST
High Performance Computers.

Snazy New Systems Are Pumped for Power : and Speed* ... 30 is Au., Black, The Stylam Richs and Son Stokes GRAPHICS/DESKTDP PUBLISHING Web Provides New Market for Graphics/07F ... 44

BUSINESS BASICS
Whet You Need to Know About Leases
Resiliers — Mention Your Risks
When Hig steting Space For Your Brainess
to Despite Groe.

MARKET OUTLOOK
Resellers — Watch The Stock Market
A Send Understading Of The Market
Cas Help No Sciently Pathodas' Womens And Leases
In Tennas Davi

EYE ON THE INDUSTRY

Micropiax Nettyo Holds Framiss —

But Name is Eventhing

P) Deed Sinds
THE PUNDIT

PC Prognostications for '87'

Py Groom Remen

MARKETING

How To Hest A Service — Seccessfully __ 16
Ay Carl Cours

INDUSTRY PERSPECTIVES

DEPARTMENTS

New Products 58
People 61
Celender 61

0,2





computer store, and a

"Yesh, right," I said, sed promotive potecty would need my thoughts (Of course, perhaps it seed my skepticism's in other way around?) in any event, me

skirst expenences, except 1 didn't fall

NOTES BURGES MedDove, and the company is The Other

MindSkier, F18. MindMuser, Med MirdGomes While the products score big

Canada's own Microforum Inc. offers Corporation, where brave sook our light their way up the component leakier - all was

Games Are Increasingly Complex scentrio of convergence between taken son, compagns and the Internet comes see much more starguist gross possibiltics orregion. Already, the linkered to of the population - for example, by our

Thought: The Ultimate Input Device? petition or games such as Decembed

PC Sales Setting Processors

encowers - bandwart weeken are work This issue, known for Don McLane

corners the latest in guesting in "Noor 'Em Un Games Still Genetic For

profer regreet for multimody execution. See Also Zignon's "MMX - The New Scoots's 'PC Prespedentions for '97."

On the technology frost, Toronto net restet in "The Opinial Storage Market: Weifer For the Millewalers. us on the graphic objection publishers may ket, in "Web Provides New Murket For Grankles DTF " (note: 40) Moreover

new nerwises in "What New Nord to Knew About Lesses," (page 45) at strong and radial elem, attends voter

Breever, be comful on those vertail

maint Publishers, Judy Presser Beer Gros Coorloan

Production Staff Starty His En Account Manney South

Em Remort Manter Work Lawer Leaching Account Massess March 10 fee

counting Funds Aus

Twosets fifther

Yearneyer Office Sept NO 429 Cand Seve Wasseyer D.C. Candr Vol. 4(2) Taigai Ofice 7925c0 Td 8407731-4433

Multimedia Notebooks For The Road



With such frances as a large 11.7° SVGA or 12.1° XGB Active Matrix LCD scene, tainered port for wheless conmulciations, Periform CPU, to CD-0004 diese, Glide Pad Ploger Mose, and beliefe mathemetic scene sound sytem, Sharp Electronics is writing the next chapter in note band contention.

introducing the Sharp PC 9050 and the PC 9080 state-ofthe act, high performance, notebooks—multimedia solo-

tions your customers can take on the road!

Available at:

besigned and manufactured by Storp—ther means prouven erilability backed by national service support neiworks, incomines and our experience that only the leader in mobile inclinologies can provide. We not only give your cussomers high performance neerbooks, but give you the mobile to make profitable sales and post sales support like the Sharp Basid Exchange Program.

We're looking for resellers to be part of the Sharp Team. Committed to providing value, high performance, power and technologies virtually unspected by the competition.



Pro-Date Inc 6-951 Maxon Street Whitelog, MS. R2J 054 Tel: (204) 231-0390 Fax: (204) 231-0480 Pro-Data Inc 3424-256 Street Calgary, AS, T1Y 6C1 Tat (400) 250-8661

FROM SHARP MINDS COME SHARP PRODUCTS



Image Codesis | Self-Tide 1200 | Self-Ti

Bernard Corporation

Acroly Compress Inc.

ACR 990 232 NY

Senders

ACR 990 300 EXT.

| 100 CV 02/45 | 100

| Design Angertains | Design |

Contact: The Editor

NEWS

Where from the dies repeting neve and further taple for implient Department facilities for in postation of diese directly with - year regression.

Light Rosp Constitute Feed group Sheet process Coll (1971) 353 2990 Fee (1971) 373 2990

Eulin Stor Cost Into Living State State

GR. (ASE 257-2590) Fee, PLAS 257-259

Doubt Silver, July Burs Evan J. philitopic can

GR. (17.5) 556-5471 Fee 14.5) 568-5514

Counter Corporer Wholesder weburner tras connect on tumoriti counts in the confect, plus your feedback on our publication.

Please write The Little Country Washington Country Country Country Age Towns Charge WALLE

Victor LABS
Victor Court out toutherk and sagg



MULTISCAN 2005X AT \$999' IT'S A SIGHT FOR YOUR CUSTOMERS' FYES

or with Serry Technomic scenes, providing, agenting to come the experience of most of coloning for scenes and coloning for scenes and coloning for scenes and coloning and the experience of the

 Meets or exceeds industry standard international Energy Star, MFRI, NI
 Digital an-screen controls allow for adjustment of image attributes.

THE RESETTS CAR PRODUCE TAX

(\$100 \) \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$100 \| \$

| Manager | 1980 | 1977 | 1840 | 1840 | 1840 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950 | 1950

cc: 200 MM min

* Appropriate Africance and the first term of th





WHEN YOU HAVE THOUSANDS OF EYES You Know SHARPNESS AND NATURAL COLOUR WHEN YOU SEE IT. INTRODUCING THE MULTISCAN 2005X SONY

I have not read in your December 1996 uses, the article on In the salebar on "No CD-AOM?" the roost advisors palveger has been contact - the addition of a PCMCIA NAN CTURING

in PD Both a CD-ROM, and a m-wine-tile opeical disk drive in one). This feature mines undimined, non-managed, cost-effective,

NC reedy for business, not home

Sherr few can no The I do cropy your publication, and look forward to each recor

high Optario minister was that? The article dealing with the opening of Supercom's I don't know what Mr Thubouchi is up to list-

We welcome your letters on industry care Editor, sie E-mail at cowilling ou, or fax (801) 509-2501

commency and recoil remote OCW namely the

I shipk the concept of a NC is no idea that will say frustion to new beginness every begin the concept of convention Will the NC be a home speksace? Not yet. Occe the supporting industrication at in place and proven to work, then we sell see the home NC begin its

Due Street

abe enforcement or on

CCW Bulletin Board Customer (unking for petroleek I manuscu a hote teams baseball clair and we are reviene help in her-

you here on assaws, please control the person leaded below directly, or send us year comments, at cowilling ca-Seakune PDS solutore

Sections of atributer

our We have had quater of up to \$1,000 for used convenent, and

Leading for a profest, earness or surrour? Write to GCW Salistic Searc, of committee on, or fax: (453) 252-7532.

YOUR CANADIAN DISTRIBUTOR FOR TENDAM TECHNOLOGY

TV / Video Corde



PCI Weles (Combine /D) ISA TV/Nideo Centure HI THE Palata Continue V264VI Marked 1988 Shorkery MACO

Storage Controllers



DCASOCD-F7 PAID DCAROCD-EZ BAID

LINK TECHNOLOGY INC

Distribute Reliable Tekram Products...

Here come the matherboards. Starage controllers, TV/Video Cords, Infrared Networking and CD-ROM Servers.

PSH30-/WS



PATAD. A4 Besture Bro EX ATE





At LinkUP, we believe a successful dealer is the one with entistied customers CALL HE TODAY FOR RECORD AND DELICE SHEEDER PROCESS.

Suite 722-724 Gordon Baker Road, Storth York, Details M28 384 Value 1 415 400 4707 a Core 1 415 400 5107 a cough colos@links as as a Wale core below as as THE COST HAT HAVE 1 200 215 4548

Apple turns to NeXT for next-peneration operating system together Apple's co-founder will resure to the be general in Apple's future operation

ear recovery plan 'on track' coacter." As well. Ande consteal resources

On Jon 15. Caperton, Calif-based April for the manner entires on Dec. 27, nove "While we were very disconnected by 1996 of USSS 1 billion, a lass of about our making was reported, command to a profit of Suncial officer Fred Andonon "We exited US\$25 million a your ana. Unit sales of onethe counter with \$1.8 billion in cosh and con-

ry measurement during the marter? Notice or Ands claimed: "The company experisuper-present Performs brooked rendects or Apple chairms and CEO. Dr. Gilbert the United States (which) accommoded aggressive mixing and rebute activities that

Misster before Gibert Amelio, direct

ay offices beefed the press regarding the aware to carriers their committees.

code-entrop for 1966 a les week, a Trepo Allegro releuse due ra carls 1998, and a The consume actors Mac warm of





Window To Your Mind's Eye

Whether son're charting the family budget, or servisioning the world Our 17' receitors have some three Megazine's Best Montage Overall

Plot and Pice with Windows 95 -

Cita/Source Councy chimatales eventuring

Energy Star and VESA CPMS source



















fiscal year, which ended on Nov. 35. The commons's annual recenses grow from \$196.4 realized in 1995 to 53342 million in 1936 a 70 per cent increase noncoarter N6 ween \$125.4 million.

coans of 1996. A large part of venture to bear feet in 1997.

Office for Inva. the ConstVideo. Natwork Competer, and additionsales in the fourth quarter of

Corel appounder 70 per cent arough to '06

Eurlasa has 18 million cones Sun Disco-based Challenger Inc. hts appropried enearch souls indicating a currently has more than 18 million warm of its Findows Links and Findows Pro-

Mac and Anole Newton obstorms. The latest version. more prospried filteries, escended disectory services and an Europeal Maustacase Services AFI which enables three namy developers to negoids after in applications Votebook to 200 MH

Microcoft Investor the Office 97 culto MR Read MR Assess

consumed by symplish well archite of Office 97, the larger year unte Marroach frantes Rdl

Microsoft daires to have come \$5 million commet Office. ers, and orders for those

Properform and Manually Ontlock Percentes a motors

and communicate with others. contact management and a wayby for Office 97 years "

area for sum of other vendent seiter in \$140 A Bearleses Office 97 recludes fidure of Office 97 are also reschible.

MANY flood unleashed on market place

best Core has officially relevand a significant new researches of Process and Pentium Pro CPU chie line MMX to baserally a set of

"Our new Postury renomines with MMX technology tented seem moltaneds performance," according to Para Clinary, market-

I said because reduces as add Program manufactaring processes with MMV production in 1906, but hold the new chara back down avoid discoversion votes of PCs due to a MMX back-order situation Insurences announced dealing and assetook PCs with MMX

(15G) appropried the new Yoshiba Teers 740CDT, a fall featured antiomedia notebook powered by the new 166MHz I gail Profuse



44 Worth ESS/ET Schools 1997 and down those the

drum n IOX CTO BOM and a acting morns

YOUR ONE-STOP SOURCE! **Broad Selection Brand Names** Competitive Prices

System Highlights:

Intersective Communication — Call Teacher Sex lets sta-

Real Time Andie & Video Deta Transmitting -- recount ful Power full Browfood - tracking currenals at teacher sta-

Remain Observe - Insulates can check as decay opposes by safer sending from one student screen to another or by more Formed - teacher can covered student stamm's bustness

Publish - investigly reset time, a crosse, or all student appropri

Group Challes - after duration student was one was necessary

Multimedia Education Systems











APRO Marketing Corp. HOTMAS BOAR BIOMOND BIT VEYTAGE TEL 1994 (231-1929 FAX 1994 (231-1929) Wish Side Intra/Away Incompress All brand names are registered trademarks of short respective owners



Maddom, On board Errorc has provenced a

distribution agreement with JTS Corp. of San

CHPST WELD-SX

MAXON.

JTS's had drives include the 30-inch Charms morehests. According to Erross. ITS in appressively params the development of a

Sceptre signs Skyway for notebook distribution Scores Technologies Inc. bus support The Sounds 4000 is a 100MBs.

Skyway Computer Centre Inc. os a Pentam-based netsbook that note a Consider distributor of its

NeoMapic single-chip 125-big maphics accelerator, and a 2.9chipset. menters and LCD the The system features a

6X CD-BOM + 208 hord sorting. Scriptor says Canadian sales have down, and so infrared interface for wireless

trapled in that time period Empac is now distribution ITS Corp. hard drives

Qasis modernizes Chinese hanking Goos Technology, of Toronto, has populed a removal

The Xumon Golden Card project in a remonal Switching Technology (BT) voltages - a Usus-based product providing stating, stationers, switching and

NATIONAL GIGARYTE DISTRIBUTOR

Globelle's TechKnow Train roadshow took launt through Western Canada

1998. but shore the company More than 2,000 residers were TechKnew Than condition as TochKnow Tous loss a cospic et coursel thousand Mingrey Canada list month - making

company industry Tambumo, madarony "It office as on

winter is a good ome for the resellers," according to Mark daying the Calcury 1000 "Clobelle does a good job of get ramped up for a busy sensors

contacting and inference show, servings dealing Techno-"They're very good I so reastly Globelle takes TechKnow True to Southeouse Ontero

NATIONAL 2TH MAX DISTRIBUTOR

CHILANNI KNIB DRIVIL FLORM DRATI CE RONI SOPRECADA RIX CALL: (604) 279-7618

READY COMPUTER INTERNATIONAL HARDWAY ARKY PLACE BROWNING BY NAV 2011 raghts President and COO Ren

IF YOU'RE KEYED LIP ABOUT YOUR BUSINESS

WE'VE GOT YOU'RE KEYBOARD





MC00-MSR 80-key prog. AT keyboard wedge, convriged achieves. All keyboard cable. Triple track and Smart Reader potlonal



51-key prog. with 68 normal PC keys with butt-in MSR ainto keys mure lock scroll and cape lock LED. AT keyboard wedge, download software, AT kryboard cable LCD. R\$232 issertace, baroode decoder triorition,







53-key pron with 58 normal PC-keyboard alpha keys. num lock, scroll and caps lock LED. AT keyboard wedge download software. AT keyboard cable Optional modules include: MSR, LCD (6y20, 2y24), R9230





1-800-677-SDMS

Netcom Canada speeds Internet access

to the recent Issuerst World '97 Previder Neteors Canada seponthe company will shortly offer 56Kbox dewalend speeds with

career US Robon-

With X2, some our get Law INDIX speed (WKDes serves 64 Obes), without having to go to 'rioders' (assally at least \$300 erces than a resulter 25 850bes or 33 6Khrs onalog moders), psysne. for an ISDN hoekup (up to \$150, refers a free grapfiagen group-

tice is being our by the local rives company) and braiter that is downloading that be

Currently, X2 is in both toward. Newcom Canada COM ISE which with worldwide, chieses to be the

If the new huts-download

and is introduced soon, it could be other high-speed learner offerstate such as ISON and cable

Corel announces suite deal with Netscape

(NR) - Aurice to steel a Stille of Microsoft Core is Office refiware sair, Core! Corp has announced a deal to bundle Communicator chert software in

Communicator will be excluded and as Office Professional 8

sets, efficiely said in a telepon-Chris Biber, technology evangelist in Circl, characterized largest ISP as the very consent- the bundling deal as the begin-

> references" between his firm Netserge. And, soked shout the three days before Microsoft's said it was "corruptly not occiden-

Wide Web browser, Navigrapa,

Telesat Canada announces price reductions On Jun 15, at the Internet World '97 show on Terrory, Televol.

cytech rackates a satellite disk and interface courts from \$999 to \$595

new pricing packages for the Turbo Imeract satellate service were annunced The Moon-Surfer plan offers anhanced 400Khes sareline download Monday to Finday and all day

selimited deviane access for

The two communies said they centre competas. This capabili-Corel Office Professional, the

samula "the amortance we place

made much of the cross-elettern

programment language, touring

However, the saltes that con-

learched sumistive only for

Andr Macinesh operating sys-

Creel also said a bean versign of its Office for lave state from its Web yar starting

as affeedable, best-speed interest connecton regardless of location, and it employs Acid catelline at speeds up to 40000bps to a

receiving doly connected to the wursen is convered via a trade-

22 EEbm. Postos, "Telesat's new priority

SAVE UP TO 50% ON RRAND NAME COMPUTER PRODUCTS

ETI-BEM Drives + Feamodems + Joysticks + Kayboards + Mice Metworking Cards & Fishs + PEMCIA & Mobile Companies Spenners * SCSI Controllers * Sound Cards

Treckhells • Video Cards Distributor of Manufacturers'

Overstocks & OEM Product

LOGIC BOX DISTRIBUTION Tell Francisco 764, 8712 / Tell (905) 405, 1541 Final I hadroffinoichez com

Call to be added to our free faved or omal

dealer hot sheet sent week!

48 VANDLESSLER Fahrany 1982 ton Supranguration

Ttty Numbers

Regional Piracy by percentage rate and lost revenue



Global Software Piracy US\$13 Billion

(NB) — The first independent survey on . Israel market information from 77 countries The varyer, the first such independent because applications global scale, said losses SOFTWARE

at 99 per cent Following



deargon of sufferite the

at 46 per over in 1995, anisone may over Commissioned by the Business femil Trouble soots consent at Eastern Association, the survey was corried out by Asia, with 21 coursess having piercy rates



Voice Your Opinion! Reader Poll

So you think the he a rigolitant bedany and market for your contourn When it

came to business conmy Olink Da NO will be a regoritered of YES. But on the apportunity for NC-type spokunces in the horse

This issue:

Mach has been said about the Interset and its impect on software distribution. Some weach-

However, others say resellers may also find genorative by selling via the laterner

Our question to you:

While some software may be disarbated over the Images, we believe it will have very hitle repact on our bottom loc We believe the Interact is havant, or will We believe down business on the linternet

(604) 608-2686

or live yets our Wish care

www.eewmag.com tradition/commiscom February 1987 WHOLESALER 19

Vinceper a often reputed as mother coun-Of Comds (TROC) Noded behad the non with the American West Coast three thr vost, cold, mostly emery country to the ext. California and Washinespe State (home of

now a strategy: gust of the Purellic Rim or secomputer show, and approach it

computer show to a higher end. The Time Corndex Pacificus in 1995 say sensificant namenhibring, along with local computer retailers, and the

ognificantly, to more than 20,000 is 1906, the treat continued more includes a larger proportion of company This year's PacRes '97 show down around 35,000 victors in increase of over 15 To The Far East

calibrate included more than 80 showing lead Pertian MMX (hip, which work only the start of Packin '97. The slow was the desired example with the new MMX van, fires, (STAR and US Release) had uker. U.S. Baltones had as waken ever home-

Leventh, which sended to new model The Internet Service Providers (ISPs) were

> also maded 1997 as the year or Electrosacs, lengtage derivation of PC roles produce each in the

strong payment, with the Aprile Texasion show Apple provided the latest tradition to "Blavoch" new extension GS, which will

Vancouver Shines as Gateway

provident of the Interset Software Business



made the usest that is 1996, hinge numbers of laternet for serious becomes applications work As 1997 unfolds ascessing expless so-called 'estagets' The move to acress! ment confortable with the convenient of

today's Windows PC with lower cost of ownerskip but sall offerior a last personal

The success of this year's show leaves a

Show vields whole crop of new products In Georg Coursboon



medium, of a last marker view that harboards markets are pecking up, and reconfictances

series "enhanced network computers"

The Wintern 4000 starts or \$155750. Dougles Chrosic, provided and CEO of Wyne current terminal market. He said. "The idea ms. marks: displays and Web between " and Chance said "With this clients we do

Samsung

monetor may at RSH2 and offers a upsolution

sequire TCO-complisace in their purchous.

Acer American Corp Insected the Acer Name INVARIA prochast, which unports MMX, and promises an average seven hours and a 12 1-mch TPT screen

Agfa the \$799 chloto on 2 victados 72 steaded resolution strapes, a 43-

software. Marketing Percel Espects the professorals such as assess who "has to describe to a visual

Sony of Canada locarded the DSC-FI which includes a life inch LCD screen namers, and window for Sour she GDM W900

des at 36Hz Book pendents are scheduled.

Drysice

the PowerMan P2166M and PowerMan Perform MMX processors. The systems are available in seven different confinentions. with estimated street pricing ranging from

NEC announced it would concentrate its attentive on sales of comorate products. Millertch, retional marketine manager for

resident in Canada, and the company been to extend chancels and rates

Grace Counteur is Edger of



Shoot 'Em Up Games

Still Gunning For Success

Industries are the same-boying public will alsers and other asserted enhanced outlaws sepous to be shifting at the PC looms to the the year's better either titles.

Consumors, it seems, can't get enough blood and not when it comes to summe. according to modify who are retrieved other sext-offs -- feathly, the really gory coff." und Bay Ruckton, unchorperson for occupied a popular area in the market for a PC Gains Prominence

obstorm for a patority of same players and According to Backson, CD-ROM titles are think it's rafe to say the consumer is very stranely movems towards CD-ROM methodinvitoral are still cogular, but more and "Many me doing that explorately, and

rames and extensioners offer are

MMX Plays Role

Larry Wisser, president and CEO of year of Intel's Pentium-based MMX chip for PCs, offering enhanced quality graphics combilities. Expect to see a borde of new products based on the MMX elations, he "[MNX] will provide the end-user with

name." he said. "I should the industry has both factorers will have new products for that plat-

to Wasser, as PC vendors look to penetrate even deeper into the consumer males. "I IBM, Apple, Packard Bell and others - ore PC is a fully confirmed system costate less "We've let a bet of a burne in the road

vince that other 55 per cost of bouncholds studing points in the way is price."

Windows 95 Games Certainly Macrosoft Comela Inc. is among

PCs According to marketing rannager form. Lost year saw limited support for Windows 55 from both energyomen soft-

actually saw Wiedows 55 sales overtake DOS sales for exmes," Swith said "We saw

come out with a Windows 95 version and

latemet enabled games,

securi, Risen - dusin G2 Deam - was a pierser in modern

Those that do will educationary copy readeds are foresting in

mentioners who will look to reterrate these rate their own product offenses, he read Input Devices

On the hardware ande of fances, because con-

Direct, Becttone Arts.

to Water applier com-

summ might release one

"You would be suproved at the three rands of synthesis and same task we adevery month," Buddon said. "Wi'm storing to not price many of these trace of many prod-

peace from Microsoft are remained to being According to Smith, the Subrecasts sky has been extranely popular The unit description and a second secon and fighting games, plage descrip into a PC's

reprefectators. As a Breaking through the games ket will also see moster market clutter rues of extensioners

in the computer soft-

recrossing advertising budgets the fold-

different recentive products in the ber

most market, we have many of these same The landscape is about to be changed dra-

iver corrections like Microsoft and had



sampler teaching and selfly take off to 1997, according to Buckton These are products that offer learning through interfaces — combinesse

The products that you obesise out are inst amorare and high especially modily not cete them," Busines salded. "They're armotime leafs are learning bow to count or write

be loss in 1997 as experiment software magnificants look for quality over quartity "I think the experience of 1996, in least to fixed the mariet with a guidbasic of emitmedia, CD-ROM offer in an arterna to cale

> Minor interaction - Command & Com Bodies Sephers - for Davil New Jack S.

ratriet share and shelf space," Wasser said. "What's happening is a recreenfour amover of avoid product went back to the

bridge — Named Brid

it or the device can be dainy chained with three other Stdewinder sums made to allow up to four "The Sideweder same and also allows you to

dell'erres (systick) busing functions and combine is Jenuary, the Sidewinder was also being bundled with Spea's Victor Forber for PCs

Microsoft's Isself-Noose, released lase provides a range of functionality. 'For example, if sames, I can scroll by east softing rest morne freekstuding through a document I can have it do that

she continued. "If you're searthing the Internet and and backward between pages, you can use the Irrait/Mouse will be available as a single

product and Will be bundled with Microsoft Office first firee months of 1997 1997 include the next version of Myst. Devidice's

Literal version of Dublic, which been shipmen this month is also expected to be a popular seller

ta well

Girl Games? The year may also see an antitude new entenory of a market dominated by products specifically aimed

Burbec game may spown offerings for an ax yet unsupped market at a toy fair and axid. 'this product will never fly said "There's no early" murket for (guessia) soft-

were aparts deles or fighting comes. It was a boys' Barbig finished smoon the top-softing gume takes lost year and proved that there are many new francoin in entring software set to be emplored. "At the end of the day it comes down to the morefacture langing something different, with some purposets to it and (building a product) that's a great guarag esperience," Waster observed. "That kind of product will sell and will sell in large

questions," In Dan MeLess is a Taname-hazed parester who 24 WHOLESALER February 1987 Inquirementarian

more coughtities. For the sale of this named rather dut all pasmally growest-

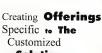
Every game is touted as a great game, the failure rate of pene software is

Additionally, the retakers or exec-

higher and higher every racesh dy any staches, or supress on surse the cush box, is underputable. The cush

Us until now, the barre game

year Microsoft to the common resolution to a competer-based plantows, and a com-



Solutions Market .









intal









Nikana	
	Cyri
REATIVE	

















waiting for the millenniu

other SCSI or Soboued IDE varieties with between 15 and 10 cents per exegulyte and that may computer resulter learns quarkly how

cracel regarding of programm archivel. autives to a cipele, internally progred bord. range regionic hard drive solutions are not a completely ideal solution. Mass storthem, with its tions. CD-RDMs, or one

Undper com to 10 per cent of hard drive covas. One of

The personal comparer field has seen storage

others), is colorable case to restall, offers propert of data these dress and some early

hability. Higher capacity flopments have been created lower 100MBL but the ster of the monobate of the sames to view \$1/MRI - and it is only possing for making backgaps

tage systems. "Optical storage" refers to technolones that stilled linely controlled beammediam Recordable compact disk systems

ency There are a vinets of CD-ROM for-475-erch forms, which is readable on any

and MD storage carpetter, salide CD-R. Gencul storage congress are swelfal for

currytances and not in others. Why Magnete Optical? First developed by Soay in 1988 (The result

MO schoology involves magnetically chang-The best of the new content storms

crystals so that the deliberator can be detected, Optical technology ergoys a couple of nevnatiggs over CD-80M. For one than, cartridees are creatile and se-mable, allowing OEMs, who purkage them with doner willnow and interface conts and cables. For the

does sell sakebox MD systems that can hold competitively speed with CD-R dover, and has morely printed wide acceptance, and now are being released segularly. New MO carindex ferrests are typically backwards-comsuithte with the two previous renerations of

to never MO systems is mov. MO our interest to expenses senses competition from Dintal Video Dek CDs when mearden for Generally, so muse as MO corestee, coving surface is scaled into a well protected

age capability of its custradges for 50 years. On the flows wide, NO controllers can be minutely expensive wheat \$95 for a blank the over two oceas/MRD. Also reserves certadoks as well as write them, are self our all and find some other way two network.

ofter person's computer Of course, where the endance to bickus vision for his or her PC, or if the MO antided base of MO drives in not a problem. of MD drives could blossom quigkly as 1997 and 1998 In 1993, the first year MO doves started to take off, sales were \$10,000 early

ss 1994 - 304 000, in 1995 - 475,000, and in 1995, nearly 200,000. Purpus accounted major players internationally are IBM. Managheta and Sany, olos OEM systems

Why CD-R? The main benefit of Corneact Disk-

and product (a CDI which is widely commit-650MB. Here we see the supergradu effect of of scale as CD-R cought on resolute as former Those treeds have combined to make

to almost user other company user. News of

beliefy to the same degree

CD-R price are dropping constantly and rapidly. The street more for an unusual If prices continue to drop to the \$500 range,

Downstein to CD-R ractude often tracky CD-R doks, and the maletes to error files that, while regular CD-NOM disks will be residely on the and research of DVD CD Why COURDS

The present had on the constal stances black to

can be read on any PD reader, while the drive

So, for under \$1,000 year pet a first rate about 530 for a 650MB to wretable dail. Cobose & cross/MRS. The PD done works by focusing a laser beam onto manorcopie envi-

The downside, of course, is that this is

Markets For Optical Storage The market for percul strongs solutions can

there is the corporate market. Which makes users access to CD or MO strakenes, rather then making each and sage to MD drive on his The other MO market is the SOHO

part's reaching. The companie market is now. entity served by VABs. Howlet, Packard bus-Sundayly of MO Bhrary YARs in North America and "ferrers" in Casada, according to HP representatives, while the SOHO con-

the ced of 1996 racued from \$725 for a Yemaha 4X CD-R kg. Blugh CD-R Dealer

There are several major suppliers of CD-R

and NO system acres to the Capadian tourism company Tobratry 1997 WHOLFISCHIS 99 market, cacladam Hewlett-Packard, Matsum. scan up, and it as OEM contented of a man

ten with a suggested less proce of \$995 US CDM-000, which has a secretarid setail open

JVC produces a line of CD BOM library. voters, secled to the MC-1300 (200 distal). also gados a Personal Archiver Plan CD-R Wrater 'to easile description to a CD-Die ann other removable storage device

Fulltanker been one of the most owner, sove evengels to for MO in the Canadian man-1996, Feeby Carado metancol the world's troling the capacity of ourlier MO drawn.



energh in the potential of CD-R to secure scand's develop and market a law of CTI-R. public with Window S.L. Windows 95 and Window For Workerstee HP announced 1990, the 6X furthy recluding the SweSone the CD-Wester 6020es, on external porofled

rotebook computer users who need a term-

HP also his a head in versully even the dominant choice in the comprise data

solutions when the technology and the murket Naturbia (unfer its Panaene saleditor and manel makes the CID-ROM and the same mechanism the ability to read and write 650NB PD dolo, and to mad Analo

makes, having manufactured seven millers of them in 1965. The common has provedy product called the C-2600TE 2009X CD-R. Enhanced IDE (ACMF) CD-R Reservace. Ormanily released at the Pail 1996 Complex

speed, or 300 KIN-ac, with a very low error fazer of CD-ROM dovo, Mosen by also told to that many CD-it deep, are too

ROM down" The supposed by price of the Manageles rules a 525-lach half-

bridg NO drive that can accommodate 7.608. 1 VER (ad 65000) media Blanck Missa offers a note more of NO products, suchshire the Tabor 230 NEC his received in the PDCD 220-PD-SCRIL SCSE2/ EIDE (ATAPI)

based dual recorder/reader NEC, which was a major player in the high performance CD-ROM reader market, has recently found itself have maked out of the CD-ROM worket as Phomos debated nice new catical stor-

240, and 460 disks). The prev CD-ROM work, and those PD/CD Libraries, which office comboard PD reperiorship dialog with 6X



US\$10,000 to U\$\$18,000, and up. A kheary up to 680 deks, with rotonic manipulated a network to one or more overs



The DW260 is fally commands with crawling

650 MB and 600MB formats. Supposed loc and US\$2095 (extensil). Plaumon also mopely introduced faster direct everwrite

2 6GB MD Library

Ricola manufactures on external 1/908 RS-5060E optical drive with 'Mobility' formether software from Apenia, for resider

O AD: The Cor

Drak format on a begin scale. This format. MPEG II decoding devices, will have to available. Depending on whom you talk to if

However, almost every manufacturer and

R does come. If must stand the best chance

Like many other areas of componer technology, the pace of change in the ophical storage seers are consumely at risk of greater stuck

with an accompatible, non-correlabile, product should ever be represented as any they but a temporary solution, has as the widely used and "commedification" sets in

high-end optical julcinosas to corporate not scours, higher technical skills and endure Jeff Evens is Toronto Editor for Consider

DEFECA (No-You'll) 1-800-000-0022 AVC Information Products Co. of America Hatzushija Electric Industrial Company Reburni (400) \$70-6700 http://www.mbscm.co

Patenania Communications and Systems Spery Fleshweigs Inc. 1-000-895-7600 Schwest Technology Inc. 1-000-245-2276

For more internation, contact:

Amerile: 1 839-827-8549 Mile Dween appells com

Harristo Probard (Cassatte) Ltd., 1-000 507-0107.

xperience the Advantage



Model 5600 Presents Three energines in hose for you are from Model 5600 Performer



Model 5800 Performer Plus

Pentium 2006012: Parletmenes and 72ME RAM. \$6 bit PCI Res with 1965 EEO Video BARL TH

665 Britanals Rd. Kost. Sulls 23, Vanconaga Out. Tol. (905) SH-6375 Tot Prov. (986) 32A/KGEZ, 1322-6435 Fox (985) 941-6375

High Performance Computers



Lab Test

Snazzy Vew Systems Are Pumped for Power... and Speedl In the Shoot Tim Simulatur, Waller and Shoot Helinda

Most and more nower is home bodowed once committee users, at a booking oftra fost processors turbo charged vales, complex and/one-4s carefulture, speedy CD-80Ms, maily for hand-drops and they're

In pad-1996, Igtel pareduced the 200MHz Pentium processor level. As the cost of the 290MHs processor decreases, more and more

Today's High Performance PC

It heres with the processor, a sup-of-the-base 200MHz. Pomism the peephbarhood of 32MB to 64MB, and a queck bond drove --- one lowest: a speciate of at least 3,000 RPM, a transfer rate of about 2,500 and an across time of less than I Less) Throw in a VRAM or WRAM.

the multimedia professional and for business use

Servet the P133 and P166 perceivers. The P200 is approximately 12. per core favor that a P166 and costs about \$150 to \$350 more. A 12 by many purposed professionals — thus spellfripe a P200 based ex-(versus a P166 based workstation) for the overage home or office use

a 12X CD-ROM

of P200s, less not

Do wee hear this specifical? "Should I hav a Projust Pro or wort for a The diferent will always regain Of coarse, the buyer good be

willing to gut out the extra amount and sarafy the expense. For the used dragon, there is not an even faster emorstor --- the DFC Alcha rows at a clock speed of 337MHz. but he propared to west your own selbuare developers and hardware manufacturers. This is a symbotic

Windows 95 - they will. When enforces do seemde, the probability haved severa. Consequently, both Microsoft and letel will add anothapprades are only being offered for the Windows 95 platfersy

What is The Market? So what does all this power do, and who can benefit from it? No doubt the performance PCs described above represent sonous computing

No doubt these performance PCs represent serious computing power, and are geared towards the power user.

For needuces of multimoits comest, such a system satisfies the need

Incredible features for tomorrow, the NEW TX MAINBOARD 97.



Processed the full wing offers the year land QCF deal QCF COMPLETE SCANADNA ENC. 2558645 Court Link & Markham Deserts, LTE 128 1854645 Tour LINK & Markham Deserts, LTE 128 COURT COMPLETE PARACONTES LINK.

UN CONTROL TO SE TO SE CONTROL TO SE CONTROL

QDI

Control of the Contro

3-D Micro IPC

Sesetter Authorizetism Marketing Support For Resellers:

Maintenance And Tenhology Relationship With Resolver

Changel E-mathic felt lides are con-We configure our voters as a high-end business maintening

Advance Interface Express Macro P106

IPC computers have been

consists with software. The

customers will probably want to aggrade the amount of RAM on the video cord to ZMB executily considerate the visual price of Dangeroes Crossoms, Works and Money are also included. For

of the INB vales and slower hard done

authorized dealers. Authorization is at the describes of the

Marketon Support

A depot warranty is available for both resellers and end-uses

Enlarge Discounts New Of The Merket

Malterolic is become our designe systems are MPC negleons?"

Editors' Notes This victim from Eastern Micro was the freme Persons we've

through Adaptic's 2940UW operator Multiparks accounts

Sire-disk HIX chatger from Passeons. A traly encapsored sys-



Revellers are unthorged through BIP's namenal decembrane Market Postbooker

MIS staff migraths, the Victor 590 provides all of the features that

Editors' Notes:

Our test until came equipped TMR of WRAM, and a 2.5GR Overton herd

BOM. The is most puckers, and backed by one of the industry's

We've got Canada covered!



Canada's leading computer magazine Each month, we publish 10 Prier Editions, 3 Internet Editions, and operate a Hardware Testing Facility.













Advertise in Canada's Leading Computer Publications Canadian Comunity Wholesaler (606) 608-2688 / (416) \$35-8456

The Computer Paper National Ad: 1416) 538-1580 Vancagour; 8664 688-7170 Culcury; (403) 228-3355 Alberta Colorida de Manda de Principa de Santa de Cara Montreal: 1510:841-4730 Ottower: 1513:780-6511 Holling: 1503:457-6300 Consuster Placer! B.C. 6041-608-2588. Turnsto Computer. Turnsto: (402)-657-650

Computon CIPT2P4X-200

Supposed Reted Proper 5-4,635 Street Price 51,535

Reseiler Authorization

Merketing Support For Reseilers.

Marketing restorals. No brochams and awards copies

Munteness And Technolol Relationship With Resellers.

Deep Unit Assiliability And Restrictions. Chancel E-mail:

Suggested Retail ProperS2,630

Street Proper \$2,390 Benefier Bring \$2 150 Markstine Surrent For Banellery

Maintenance And Technical Relationship With Reselbers

Dome Unit Associately And Restrictions:

configuration is possible and a disposit in required Setto Svencic

Market Positioning

Compette "It also ter-

Editors' Notes

Férrer Netre

the right staff, at a great

Malities as the overen are both-reads components like a 4MB

draw from Spanie, 32MB of EDO RAM and 512K of people of ar order to remain convicted and fair to the other competition



crample, volus is maked by a on-board. Storage corner on the form of a 2.5GB drive from

Wearra Davial Melastela component milate a Assal RLote 32 social cond, a Parasonic 12% CD-ROM drive and a USR. 25 SiChes für modern

Епирас Азили

Suncested Retail Price 52,199 Receiver Price \$1,899

Dedicated technical BBS

Volume Discounts Yes Some Unit Applications

System Strengths: Said Dresse's Sasan Hu "HE's a) careermond restern with read WHOLESALER February 1987 Incommon com-

tech support and excellent warranty service." Select Return

configuration includes a Posture 200MHz resonance 32MB of SERAN. One prices fortun-

was the Diament Smalth sides cost with 2MB of FDO RAM.

Darius Discovery

Suggested Retail Price: \$2,928 Street Price: \$2,588

Acceller Price: \$2,450

Optional two- or three-year warranty Marketing Support For Resulters.

Resulter referring and system brockures.

Mexictronace And Technical Relationship With Reculture Stay-day DOA to pro-paid both ways with shaping on de

Sozy-day DOA is pro-paid both ways with shapping on defeative system. The company cross-shape components (for compile, when each, bird drive and floppy drive) occasionally for modium so that they can also replace the defeative components, some

Notice for their continues.

Notice Recental

Volume discreets are available for resellers who are dealing w

employees

Bette Unit Application And Bestingtons

med reseller proc on system. The company is suplemental program for stoellers to purchase one dense system from selesystem configurations, every those months. Machel Fundament
The first analysis at the f

speakers and modern Wish the ficous from fixed on MOX and DMD considerations, mathemetic systems well become a "MUST" for system deembears; when day straffigure any computer system bander, "with Americe Chee, of Deans "We will follow be comment from our models: For coarse

Colour Nates

Colour Mass:
The system from Dennis Fostern a Diemond Stealth 3-D 23/D
sides out with 3/HB of EDD Kn/Of obboard, a Sound Blazer to
from Cholen Laber, a 1708 hard diem fare Triples and a
33/BGBs; securities roofern them 151K, which can be opposed to
33/BGBs; securities roofern them 151K, which can be opposed to
33/BGBs; securities from Transits and an ISC OF-SOM diest by Serv.
The appeal Count Medical Conference on the Service of Service of the Service of Service of the Service of Service of

Supersted Antal Prior \$1,999

Merketing Support For Resellers: Co-op advertising. Reseller referrals 1-600 lip-in to resellers.

FOP displays

Moisteenace And Technical Solutionship With Seculiars:

Reseller training sommers 1 800 took support for markets. Dedicated technical BBS

Volume Signature No.

Same they developing to And Restrictions.

iene Det Aredebilty And Restrictions healty 60 days

Freegh. "Bigh performance, split-system designs media counted and distractive movine small, Bind lineary. Without offering full contransaction, including litting Count's Software. 20 Million, anders, White Up to Rings, control software, 20 Million, anders, White Up to Rings, control means; payands, latened Correction Phone; and the "Super Olle" (which allness soors to choose the of fire value and options). Editor Nates
In Mark, Evideds, and it's
new from 18th. Port of the
new "S" series, the model
SSE is a good example of
"computer examinate." The
notify reprint as composed of
their more certics—the asso-



considers the desk, and to conveniently hide the lower coverantly the desk.

The media conside houses the CD-MOM and floory desert.

The modile control houses the CD-ROM and Bappy driven, which cares the over free living to crowl wound under the deal to meet drifts. The STR tree KETs new 3-D Rape depict on a

2009 votes conf. and BMKs own 3 2009 hard drive which is both fact and contains pleray of winergr spike. The combination of a 20 BKDps for modern and 16-bs seased is achieved using 18NS-50Winer conf. The package contains many popular substract falor, includme Microsoft. Supports 96, Louis SquarScare, 96. Ourshor, 85.

oducament category. To hely delet, that: Mechi is a high-quality pryend; with human galant, and a coeffice mone. http://www.commy.org. Exhibitory 1997 WHOLGSALDR 35



POWERCOM



'97 HOT PRODUCTS
FOR YOUR COMMUNICATION CENTER



















http://www.qtronix.com

widest product have the right too periotismal device Your IBM peripherals

U.S.A. OFFICE

Supercom



QTRONIX®

CURLY COPP

194 JACTON AC 45 SANJOSE CA 86192

124 JACTON AC 45 SANJOSE CA 86192

124 JACTON AC 45 SANJOSE CA 86192

FIRE 1866 Carmin Rosa Rizarcos SC W TEL (804) 279-6028 FAX (804) 279-0

High Performance

	Совресов		Danius Discovery	Data Tesia. F200	Empo: Azura
Processor	Paraum 200MPs	Person 2006/c	Twous 2004 is	Passur 2004ts	Person 200Va
Corte Sire	51353 pipelina	250G ppvhto	SIRES posino	512KB positive	51282 posine
RAM	329/8 600	38M8 EDD	33MB E30	JIME ECC	22163 SCITUM
Video Card	Marry Mileroup	Marcy Milemus	Damond South 30	All MidNi	Diamend Strott
Vices Memory	458 WSW	SAE RIDAN	4MB E30	2VE DRAM	SW3 EEO
Macher	New	Sent	Nane	None	None
Reset Cool*	Sound Element	Scool Steme 22	Sound Bluster 15	Sport 6 leater 18	None
Herd Crive	Scopera COSS Unio SCO	Western Digital 2508 EIDE	Fejtou 1303.602	Exertion 2.108 EIDE	Suspite 1568 CCX
	Adoptes 2948/W	Nove	None	None	None
CD-ROM Sries	Panesana 12K	Parvisons ISS	Stry EX	Peresons 12X	Pensonic 120
	Nan	USP 21 SKilgs fre modern	(SR 3) Oktober Tea Nodern	25 SRAps Inc. modern	33 EKbps fax wadom
System BIOS	Award	Annel	Aserd	Award	Award
Flug & Play Support	Yes	Wa	Yns	Yes	fer
Corretoro System	Windows NT 42	Windows 25	Windows 55	Wedows 95	Mindows III
		Speakers	Speakers	Speekers	Spowlars
Windows Benchmarks					
Droktop Publishing	10	136	130	141	154
Desktop Grepties	172	HS	126	170	135
Broking Precestation	18	157	155	155	161
Word Processing	16	16	16	146	159
	152	172	153	10	152
	181	141	145	16	158
	171	125	151	160	70
	964 523 769	835143299	1403840-0002	8955 712 2800	1 900 667 5723
	YOM COMPLICE CO	-	hone/streps-dyna	www.prevorants.com	name subsc o
Suggested Setail Price	31,635	52 630	8,89	\$3,199	\$2,150
Street Price	\$5,00	52.250	22.600	\$2,000	\$2,089
Resolver Price	348	52,100	\$7,60	\$2,100	\$1,880
Westerly	3 years	2 years	3 years	2 95975	3 years

All I							
spress Micro	Howfott - Packard Vector 500	IEM 578	INET	20 Micro PC	Mysix Mycony Enemax	DA Comp	Ultient
1970um 2000M kz	Pentros 200MHz	Pertius 2001012	Person SOMR:	Pertun SUBSE	Protein 2004Ft	Person 200Mitz	Persona 200MFz
29/8 prpelme	25908	159KB popeline	S1283 poeine	2593 pprins	2592 pprint	51203 portor	512KB pipelier
MS 100	2345	32945 500	32MS E00	209	325455 000	32MS \$31AM	\$4M\$ EDD
stree Milenson	Varios Milennum	ATI 30 Fires	ATT 30 ProTinto	ATT Mindel	Mateu Milernium	ATI 30 ProTinte	Marroy Malanciero
MARWAN	2MB WEAM	3MB SERVAN	643 SSTAW	WEDDIN	2NE WINN	49/5 50/04/4	-mas WRAM
nte	None	15-nch	New	None	Nore	None	Nose
AND REPORT AWES	Sound Blaster 15	Millers	Sound Broker 18	Sound Strater 15	E551800	Sound Bluster 32	Sound Bluster 32
rentum Africa 100 Ulm Wide SCS	Duettum 2505 EDE	6M 1268 EroE	Guartum Fleibell 2198 EIDE	Fujits: 1,746 EDE	Quarters Frederic 1,258 EIDE	Questian 258 SCS(2	Question Fireboll 3395 EIDE
daptec 2540UW	None	None	Non	None	None	Adoptec 2540UW	None
entrone TEX chancer	gx.	EX.	Moun 125	Took don EX	BTCsX	Tushite 12X	Aper 100
gram 25490ps x stodem	Non	33 8/0-jes lax modern	USR 23 9K3 ps fve noder	30 Major Tex modern	Segra 30 6Kops fax motion	USB 30 E/Rys first modern	USP 33 6Kbps Fix modern
word	Phoerie	ISM .	Award	Aust	Award	Award	Award
12	Ses	Yes	Yes	Yes	Yes	Yes	Yes
Sedows 85	Windows 25	Windows 55	Windows 25	Windows 15	Windows Ki	Windows \$5	None
hross MPEG XI. 16-on Spenkers		Corpless Meuse Joyatick	Microphone Spenters	Speakers Radio Turan	Speakors	Speakers	Spenkare
12	132	160	16	117	16	142	165
13	167	165	165	755	163	150	152
10	146	109	154	196	787	195	120
17	125	148	151	w	160	146	185
14	163	101	196	107	178	10	184
9	137	139	750	128	NA	141	158
74	161	154	155	120	N/A	147	169
KER ER FACE	1 600 817-3617	1-800-865-7109	1004 303 5039	1489-907 7412	33435765	1-890-910-3368	1 600-513-7702
Non-Horson	evene ba com	www.cc.don.com	www.icfcam	warm Stimon com-	WWW/DISTS CEN	INVENTORICE BY CHE	sww.s/bnet.cs
1,733	52.675	51.222	12,999	\$2.000	\$3,400	27.182	\$3,296 *
ik.	MA	NA.	25	NA.	\$3,100	NW.	2,65*
17.	AW	MA	57.200	NA	\$2.555	N/A	\$2,610.
YERE	3 98975	Ivers	3 400%	Tyens	Tyrans	Description	21095

Suspensed Butall Print, 52,599

Street Price, 52,495 Resaller Price: \$2,390 Receiver Authorization

Authorization depends on resofter size and location Mark stone Support For Baselians

Mointenance Relationship With Resultant Web sets reclades technical information and drivers

Dorso units are available at special prices with restructions

Scoter Strengths The courses size "The strength of our (Net compublishes and buth perfor-

200MHz Protous emorster is saled by \$12Kbes of marketed

The 4MB ATT 3-D video card is expendable to 8MB of SCRAM. and has the crostolity of redereding output to a TV. To complete the switch is a 2.10B bank drive from Quarters, a 12X CD-ROM vacarties modern from (Net Robotics

Myrice Mycena Engrano

Resulter Price: \$2,685

Assallar Artherization Requirements: Revellers must have an office or starrious such indexes such

Marketing Support

Masetanance And Technical Belationship With Saustines: 1-900 sechated support for spelling Dedicated technical BBS

Veluma Sincounter V.

Fellow' Between

The commerciated This

priced system Features in this unit teclade the standard 200MHz Profess recovery 25600 of Level 2 cache. 32MB of RAM, and a Micros Millerman video owl with 2MB of WRAM and a 3 2GB Charmen hard dree. An ROM in this women is not to first at the newer 17X servers had still very estable. To add the fire-beng touches, Mycosta barechaled a 31-642bps fix, modern from Supra

ServiceWorks Distribution Inc. BataTrain P200 Supposted Ratesh \$1,199

Street Francis 2 200 Reseller Frigg: 52,500 Receiver Authorization Licensel

Marketing Support for Recollect. 1-800 kg-in and POP displays tree

Meintenance And Tackwicel Relationship Two-year warranty includes parts and lideral

Dealer recently space on Wab said

Dame Distr. You

Malume Discensor: You

Media: Festiopus The coverer was "The ay rach as lead MNX and



200004: Postum CPU 512KB of professed cache and XIMB of RAM bland done sensor should be

The Farancier 12% CD-ROM should make workers with CD-ROM hour saltware a become Video is appemplished through an ACT Machos with 256B of DRAM orbital To complete the way

40 WHOLESALER February 1987 Assurance

hinese New Year D The CCCA Fifth Annual Chinese New Year Dinner Party brings together some or

the computer industry's most influential computer manufacturers, distributors, reselve it's an opportunity to network with fellow professionals and view the latest product incovation from our sponsors, while enjoying offeprations of the upcoming Year of the Ox. The eventual a stient auction over capitals, followed by a traditional Chinese benguer

Friday, February 21, 1997 5 ta 11 p.m. Century Palace Chinese Restourant, 398 Ferrier Street, Markha Members: \$53.50 per person Non-members: \$64.20 per person

Expert Clor

















WOULD YOU LIKE TO RECEIVE FREE TICKETS? ____

the CCCA Fifth Annual Chinese New Year Dinner Party - thanks to the emergus support of our sportsors To apply for your FREE teket(s), please complete and fau

OCCA reserves absolute discretion on the availability of complementary tickets. Only a limited quantity is switched.

For your business card to CCCA 905-513-6275

QA COMP

Authoristics Responsests The weighting is on dealars that can provide service and apport.

port. We use only quality components, have safet-quality control,

Maintenance And Technical Spiritorship With Societies.

Delivered learner technical support.

Come that doministration Deportunity are available with restrictions

We provide up-to-date configurations and toll free testimical exp-

Editors' Notes.

QA is known for providing petitive proces. This month's

evaluation use compar of pindined curbs, on ATI 3-D Pro Testo video card with 4MB of SCHOOL & Owners 2 OCR Wide SCSI drive with in Adoption

USE fire modern Overall, the system's performance was new



Meiotenage And Technical Relationship With Resolvery

Design appendic among on Web wite.

Discourts are available after 10 and 20-years are psechood

Dans Veit Assilability Dono gents are available for outcomed have orders Smeet interfedence on

Market Presidence The company says the P.200 is ideal for heavy sors, becoming the Colors' Notes

When it comes to bouckpark

fusion in the lot. This month's system was no exception, scorate profited cuche, a Marrier Millerrium with 4MB of WRAM, and terrals accessores, the notice includes to Acer 12X CD-80M, a Sound Riversy 32 and a part of 1609' surround sorred specifiers



the best of computer hardware. When it comes to high performance systems, that it the system to get Price/Performance

This month's wongs of our PropiPerformance award now to Dawn. Here's a consenter that is filled

All Round

If your continuers are looking for something with both cover and road looks, thir month's \$75 overage. from BM is a definer women. The unit is commend with the new XII TO Rose voles used with 2MR. enboard, and IBM's own very fast 3.3GB hard draw. The house configuration suckages a 15-such mon-Sever Habrida. The Barriage Hallis and Jerr Blook are CCW's Lab Test Editors. They can be reached at 1916; 535-5404



Eebruary 1997 Red Hot Fire Salely TRUMPET Accessories Systems

Unbeatable Software Savings

MicroGrafix ABC Graphics Surle 95 CorelDraw Graphics Suite version 7.0 \$400 MS Plus Park MS Windows 95 (96 release) \$105

MS Windows 95 (Service release 2.0) Windows95+Office Standard Bundle MS Office Pro for Windows 95. MS Office 97 Professional Edition MS NT 4.0 Workstation (upgrade) MS NT 4.0 Workstation (full MC NT 4 0 Separ with 5 lianners

MS BackOffice (version 1.5) \$440 Unheatable Hardware Savinus ZIP clicks (100 megatytes) 10 pack

USR voice/data/fax 33.6k modern S3-3D Virge videocard w/2mg EDO TVM 15" ASSD 28th LR 1280v1024 TVM 17" Rottono 27dn LR 1290x1024 Quantum 2.5 gigabyte EIDE hard drive \$349

Trumnet Distributors Ltd 2138-20900 Westminster Hwy... Richmond, B.C., Canada V6V 2W3

\$34

\$95

\$249

\$449

\$149

Matrox Mystique The #1 Rated 3D local bus PCI video card with

up to 4 meas of SGRAM Scorchad Planel Mech/Marrior2 etc et

Microsoft Office '97 Professional Edition

The worlds best selling "Complete Office Suite" from the worlds leading software company Includes Word97, Access97, Excel97

PowerPoint97 and Outlook971

Trumpet Power User System Pentium P5 - 200 Mby CPU w/Cool Ball Earl

ASIIS TOPA HX Metherheard w/ 512k PRCache 32 Mecabyles 60ns EDO 72 pin RAM (2x16m) Quantum 2.5 Gigabyte EIDE mode 4 Hant Drive rox Mystique 3D PCI videocard wi4 mees SVGA 15" TVM 28dp (17"option upgrade \$2991

12x CD-ROM ATAPI drive (Panasonic or Pioneer) SB-32 PoP Sound Blaster w/100 watt speakers USR 33.6k yorca/faxidata internal modern Mouse (Legitech 3-button or MS-mouse v 2 ft) 15" Mini-tower case with CSA approved nower 3½ financy disk drive 1.44 menabuto/Mindows 05

Fulnu Frhanced KB-104 Keyboard Software Backage, Included MS Office '97 Professional on CD

Valority Destruction Derby 2 Rice of the Treet Xenophage and On-line-Help

. P. (Dean) Barrie

Toll Free: 1 - 888-881-2288

Provides New Market For Graphics/DTP

Dealers and courliers experience in the graphes and desire publishing sufficient clear till sowed providing applications that

Corel Draws A Lucky Seven? The root high-profile of these Deer wavefleg of its CorelDraw 7 strashas rechare for Windows 95 and Core/Draw. Corel Photo-Print

ics repdact in easier to use, provides non Invitation the shiften to create image races and rubbish to RTML) As east, this new version of CorelDraw

. Cord Midsmedia Manager 7 ... This 'etcs. al file mecager' unlity is supposed to belo "rehanced" optical character recogautophysical to vector conversion will be preceded program promise to allow the

merbles, woods, stones, clouds and merals · ConfScan — This accoming will by includes · CoreDoph - This utility is supposed to

screen captum walky

Eduar - These are serging stillies that nexes, a periodic, to crear all on arithm . Contillene - Cost only the 'No OLE.

out riligates the commai methods or less. his tenimed the policy so that it should work with PhotoStop-committle plus on 18or by Digitture Corp. and AutoFiX's Photo-Graphic Edwar - whon takes patter

webols, 1,000 Adobe Tree 1 and TrueType faces 1,000 byth-musiagon obeios, more exert of 400 CeldDury and PraceDead Assoce who has followed the foresters

Internet support Although, so suggested our lets, it is almost oblimatery in the current

RS 98-03

leavant and subvers rates environment to

by Geal Wheelwright

For example, Condition 7 new allows mark to make URLs to any object and rebbut document to HTML. GIF. IPEG or Microsracia, Java Lansauc without say

Perhaps going to appear neutral in the direct link within the Help mean in Covillator 7 to Core 5 feature serv. There's also support for some new raput technologies. used "tracken stek" fall of other extra-

Finally, Corollinary areas are started to

checker, as well as Bastrom's TrueDoc fors embedding technology

1-809-409-771 2061628-4521 http://www.adobe.com

http://www.thicroorgfs.com/

griphic product in also a clearer unification of seasoning seals made required. Unified Nevels, which assigns says "back storage of the fulf" of a core associating hostons when it sequently Wordfrieter, Core supposes to Asser content of the full made of patiently of the core of the full made of patiently of the full made of the

station an add virtle is GraefDens, while slike aftering them to relicatively densities or their own right. (That's a strange the accuracy developed to goest office where it find acquired the Versana deckey politicise; we'dware from Karana contribut sizes years ago;). Design should also be hopey to am the system requirement for GraefDense 7, which present to occurrency a number of stems to either aggrade or gar completing reserved.

present do ceconenge a unabler of suces in extent agrande on get completing one sysmes. To our data graphics resultable, success with another account of a difficult framework of the complete of the complete of the completions recommended, 5500 of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the comlete of the complete of the complete of the complete of the comlete of the complete of the complete of the complete of the complete of the comlete of the complete of the complete of the complete of the comtended on the complete of the complete of the complete of the comtended on the complete of the complet

including when on expressed pacing—particularly when ongrades are concerned. Contillow 7 has a suggested has price of USSSM, with no upgrade price of USSSM for zero of any version of Corellbear from other the Windows or Masimosh planform Both Corel Ventura and Corel Office Professional 2 mere will those both to sele-

Beth Ceral Venturn and Corel Office Peofessoral 7 uses well also be able to take advantage of the approfe proc.

The Macromedia Challenge
amount Alter Corel had down the

with ministry with the formation of the first part of the first pa

any — and also bears the distinction of being stead are only referred. For both, dis-Wardsew 55 and Apple Maccrossis platforms. To start with, as one would expect. PrecEntal Craphec Studies 7 is Shockwardroughed, allowing developers to arman versus

in and hermap art for the Web This should give be may continuous who send no drong Web pages of a real boost, or a menus that their leases? Shall-know pages can now be restructly any of the 12 million users werelevely who have appearantly downloaded players. In fact, the million of Shackware aspen-

to the term of substitute and profit in the control of the control

Microandra is staging Freefresh Complex Sudio 7 stags with the Paragraphie 4 foreconsent tool—in well to 10,000 clay art magos, 300 Freefresh (explets 500 TrueTippe and PosScript Type 1 (eds., 15008 of high coolstant placegos

(b), and "learns" of dran-dammoral modch.
Freeband Coupless State 7 is evaluate for Washows 55. Washows NT. Macazonk GRK and Power PC for what it steps in an epipeatrasic street prace of USSA45, while

need sees of the previous version of a duct (or any of the solitons applicates s) one append for USSI'99. And so go share share from the competition sayon any Author Hambatte. Combines on 1 Mornigolds Designer can also go supertion approach to Familiand Graph due 7 for 2019.

n't Count Adobe Out le Caxi and Manuerelle de

gathing healthen, Adde was by no neess standing stil — pretentinfly with developneess for no Plantiking praker. Last her year, Adde hoges miliag our Adde-Planching remoi 40 for both for Macassalinal Wishirsh photons. Adde says the offers a wide mage of new financy that memor contine contain and applications. We want for more in the part of the property of the control of the property of the control of th

Photoday 4.0 include Actions (which support task automation and bunch processing) and Adjustment Layers (which are special layers through which range adjustments can be applied without permanently medifying

the original image).

In first, many of the things you'll find in a continuous you'll gove find — in one freen only in mother — in Phatashay. The company says, or the exemple, this image years have required attention way to also prefer to in a right-legal and file, so Phasashay 40 supports content or Guidan and Guida in addition, the new years.

mething inchesings (prevised by Degamer, Grey) as Corel has as used for steap copyby eight procedure and artis information. By historian and artis information and changes as Phenoching that match those bear, as made across the Adube graphics product for including Hantstora and Psychiderar, so that in one get more consoleral access to obsemantly, and not pleasage very whys prochabiles.

(including Hastister and Psychlolar), so that is users gift more dominated access to dotmand) and und pulsase even whose shealing. It between madule applications or as or differtest platforms. Adobe is the colatining that is Adobe Photoschip 4-6 makes the root of each of them, with expoor for symmetric reals approximation on the collection of the commentation and processing on Windows NT and Microtisch

hadi's new MAXX chay achmerzer The company taken pames to poor not, herever, that despite this optimisation for specific platforms; the Neutroth and Wadows version of Adobe Phanalogs 40 datar a comman fearner and new method topout, and all data file formits see fully estruchinguishe on Matembol and Windows platent.

This is by no means an enhancing description of what's on offer from the industry's key players.
There have also been same forms

DIP protects by sucregiest, Quite. Assects Physiologies 97 and lets of other less well-known releases. The lay post to make us that the graphics and DTP sector is one new where there is

still a significant degree of supplor choice originate for autorium rendem Walle Microsoft, Cerel and Adobe are many protessars in thes market, they do not unary deautisms in so the exclusion of versyme chee. And for meellers and feether typing to offer a case of solutions, that has no make this market as attactive option for finance constitutions mostle feether and frame constitutions or control feether and frame constitutions.

munerannyan February 1967 WHOLESALER 46

MMX — the new standard

Multimediaenhanced CPUs will power this year's newest

computers



Buckward compatibility mosp, that you may be

ation's legitidous. That can be lead. CPU loan back has been delewers the popularity of the original littel processor-dis-

So when latel dendes to

collection of communic built

mend for extremely, Coppeten racioties the first of the MMX family the P.SK replacement for the standard Pottom are becoming resoluble, followers

applications a bit faster than a standard 32KB Level I crobe built rap the new dozen. As well, the MNOX family office any term in namiful. But to mice absorber of recoilly waters. At the preparer, vestable pattern or available that makes full use of the emperly originated resolutions will be able

now day into an old metherhourt - you newest motherhourd and BIOS devents agre-

Days of older mechanic rend per feel of MMX Overdrove chaps to spenish original

ges, those will speed up the systems while she added the unkinedta "Intel claims that properly ontimized

ton, so that they can convert applications will be able to provide a Petrum 75MHz, 90MHz, and performance 100MHz models to spends hoost of up to 366MHz. Later medels will be

60 per cent." se sa 200MFb. While litted will be maken these available through resul channels beer to the first half of 1997, there are no place to Further down the rood are other memben of the MMX family lead is clarater in

Powers Pro. code-entred Klassich (a river in datus at 233MHz, but well ented propor peckage - the setted CPU and a bust-to expected that the release of Klargeth will Around the same torse look for PST -As well, while the studied P-S4C | ground 300Mile.





And following Klimani, had will be launching Deschares (also a mer in Ougou) — a New-vollage, help-spect (nearing a 4660Hz) precessor less that will be used at real-side congrating. But authority was not in hear to went smill then to take advantage of 1900 tools inchige — a variety of companies were showing demonstrates machines at lea 64th Consider show, reason plottlers to Workshot PSCC CPUs soft annihold designs should be widely available by

the source was the source of the source of contract of the source of the

Ison and as competions, clearly tope that the MMX-embled claps will previous time generating power to the SRAME method claps will previous processors—upon the competition of the compet

But there is a flaw in the MMX strategy. When uses the NMX registers of the city, the CPU has to seen off the

British peak registers— Note earl be used at one. This is needed to institute compatibility with examp operating systems. And or working nodes life this take take take 500 folds (1948 A in malt, least august that application developers which for to using financiary operations in method to possible This, however, may give a problem, repeakly writing with 30 (Cytes claimed but in method is an work modes at a single clock risk).

An will, this course possible problems for makintaining. Ty man An will, this course possible problems and offer created is a few.

spreadurest using flusting-point calculations at the same time. Performance will safer because of the frequest solution between flusting-point and MNX modes, but as well, the spreadurest may red up with the weep date, as graphics data means with an calculations. We had belief hope those equipment mon't playing points at the same time as adolution modern resource designs? Calculating will fell whether this across out to be a major limitation.

Galg time will led whether this active out to be a major limitation contained history point collastication are mixed by social Wishtoned applications, some your agreeablest well converely collection your tan pearse whost error over meeting to see financing point mixed. Despite these potential problems, count on MMX-mobiled designs in be the resistant variability. Beauth to the mixed of the decided in

Alan Zuman is a computer journalist and tracker living at Hincower



Accompanies France 1997 WHOLESALER 42

What You Need to Know About Leases by Dongles Gray of the personal summation. You may perrobe to



affect the brances, or broke, mustal or north operation. For these reasons and rules many, coveres effective techniques to discuss with

Incorporate The Business It is wise to recorporate in any hydraesy site.

company and sugged the least under the corcorporation assets only, without any hability

For a composite lower, it is not improvement for

a length of the second particular contracts per cent of landacets reacht record a nerven-

two renovable options for two years and personaled to waive or modify the region This type of structure would make you

the lease. This classe could state that in the garrente shall be responsible for the believe of the landlord, the first year is anniably the kishna risk with a new topant. The landlered

Negotiate A Penalty Clause

You may wish to proceeds a three-county the landleed could report from the tenant in

would have no further recourse against the trens if the scened left before the sum of the Another form of penalty provision could by that the arrows of the sought he

terest retained in the province under the

Try A Short-term Lease With Options To Renew To maximum the risk associated with signing a lone treey loans, was once several decisio to

visible to common us the broad memours for a For example, rather than cover a feaone-year lease with two renewable two-year options If you wanted a seven-year lease. to stay for the full period of tarse of dusgred. but with hearted were extended commitments

would be no increase in rest at the time of the remember to neesting for the manufacture additional learned incontrate every time you Ask for Tenant Incentives

Office a bandined to address to office a feet sent

plarty the core when the space has been Try to structure the rent payments in the melade: graduated runtil payments, free have he man to the landhood and the landhood each year of the lesse, water of fine-year

> Whenever you are dealing with a landheed, make you develop a reportation

low watch at benefit lesse on your nerve becomes lawyer skilled at lease meanurates Orde a street-swart brase lineary would be he is a herter moution to denute whether it is Dougles Gray, I.L.B. has had extensive expe-

best celling business books, as well as an Overcomen cofficers progress the backs Bunness Goods and Raising Money (South cubbased by McCome-MV Passaul and

Profeshir Consultur Baransa thesis sub-



April 15-17, 1997

Metro Toronto Convention Centre, Toronto, Ontario

DATA WAREHOUSING INTRANET DEVELOPMENT TOOLS & TECHNIQUES

CLIMIVSEWER
TECHNOLOGIS
A TOOLS

YEAR 2009 O APPLICATION ISSUES AND PACKAGES ANSWERS

Event Co-Sponso

CID Cassol * CIPS * Crowdign Computer Wholesder * Compowers Corp. *
ComputerWorld Cassol * Data Dissensions, Inc. * FIBLDEX * Hyperion Softwar
lefoWorld Cassol * Lumentien Technomody, Inc. * Limoum Softwart * Hupping
Decknorthman & Software * Lumentien Technomody, Inc. * Limoum Softwart * Hupping
Decknorthman & Software * Lumentien Technomody

- Technorthman & Software * Lumentien Technomody

- Technology





Rese watc A good u identify p

Resellers — watch the stock market

A good understanding of the market can help you identify potential winners and losers

In the technology sector, 1996 was an immortang year for the used; mador. Stock performance started off sides and varied in improve in the spring before being parameted in order to the started of the s

The sechnology actor nece June of 1994 no milited as a group of completes refer then 130 per cost in market value. This begs the quesion will sesh saccits correct in 1997?

"There is a clické in the investment industry, "the trend is your friend."

is graving of now thou 25 per cent per year, bear than say often oldary in the model. Prefix men but year is better than 25 per cent in the control of press and prefix per solve indicates any possion for solve—and therefore men revisions will be gooding in the choology active to minimize growth in their perfektion. Mere previous raises they described the second of the control of the control of the second of the control of the control of the tensative is sensing to respond the number of mantal is also growther. The second of the control of

the marks a sisting to copped The number of mated facts that speculate in the widewlogs score increased less year, as well as the combeof mashyas concerning unforded reducingly comparities. This growth in repeases well provide additional "resources capital for the high selfsocial, which will help sistem the rapid growth of the industry. These are many factors that below the fact 1997. The recognity is my relative. The sco-

fidence coughed with low influion and low interest rates is moreously conducted to growth. The positive recommic chimate along with the fact that the industry is entering the first phase of timed or surposed projected growth rates for the industry

in large of the Peterary Pro should controut to drive solve of PCs. The demand for quality softin was well crimon suring as the image of compucion contracts to given. The laterest can the relacion of the contract of the contract of the solve for the industry. Optimize symmos for the pear 2000 should start to lack us, in 1977. The

> sector in the sechantegy substry streting a new product cycle and well contribute to the positive newtowneed for the vector. Many consumers and corporations dulinged production in 1935 because the melanter was trained more

tions delegand penchasan in 1936 because the undarsy was teathing more advanced products for 1997. But 1997 is here, and consumers consecution of season the sidelines much lenger. The unconstance over the past these years almost parameters that

look for 1997 is indeed positive Why should resellers care about the stock market?

The work market tends to be an excellent foreeasier of a company's fature growth. Many people directly asymbot the tachnology andustry tend to be blassled by the latest technology. They

ovide on always consider that, in the mainter place heach the product does not always become a conmount of the control of the contro

> et at imposture to stay on top of product sales, cycles and the naturage of the companies reprumand. There might be hadden class us so the fatter success or findant of a perturbat product



by wardon the suck market. As a rule, the marbet tries to conduct a consessor's future anywhere rice might even a problem in minutary council

If a congany is under sastamed downward

mai market (locasarions but rather a dispart shall

- "the trend is your friend" It seems to fit the other industry groups. For appeard roads, the equally evaluat and forecast by the market Some 1991 Apple's stock has declined from

number on the necknology industry are based to

Canadian Computer Wholesaler

house Companies that his are perceived to a year where it may be difficult to morror and amore, are resented to headspace's they

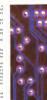
communies are good indicators of a company's A send to susceptor from 1996; was that

"Ferhage the best sucception is to myest in a diverse set of companies with

complementary but different product linea." market-share it will be recruestedly difficult for

whether is becomes or as an investor is conse-

Scattelifeired He can by reached no



COMPLIMENTARY SUBSCRIPTION Which best describes your firm's primary business at your location? (check one only)

er Subscripti	on G Renewal	Change of address
ory		
156		
		Pental Code
	Pix ()
tore be signed to be v	140	Date / /
	a selling, roselling systems, earlywere	andfor distribution of or services?
		g7 (deck our reh)

	Other thead pump and albed service firms
_	The systems my argunization integrates or results are on the following lobes at the system. DOS-Windows. Universities Universities Universities Universities Universities University. Windows NT. University.
en of	What is the number of employees at this location? Into 20 one of 20 one 20 one of 20 o
	What is your firm's approximate gross around select? Over \$50 million Over \$50 million - \$30 million Over \$51 million - \$35 million Under \$1 million
	All questions was be assured the explore can't will to The publisher reserves the resist to determine qualification

Microplex NetEve holds promise

but timing is everything

It's the mythology that draves the investiga-Like good comply, commercial viability due



in Ramoby, B.C. If the common makes and

to more free emones on so Schemet network Newsykhou and is a model of surebuilty. one Uffigure-T \$145 Discover north own Connectes Quark Care extended and a common the to no external proper search. Plan the case

Bather than developing some recent

ware," says Gerry Savekeys desector of mar-

non. So for, the corespond has defined a conthat curves a large church of PC even to say "I

is to one the Network Eve as a low-cost subso-Ethernet based LAN, it can extend an axion

a terminal corners. That's asserts the language cost and they was not all the expendent The redy connectment to setting an a

National Control of the Party of LAM and well in buleron. You not need a 100 top. nonneck and symplect becomes and transport 1787, and like any other principle and our Webs

Devel Tends or a Noncomerchant autronation of mills confirm for manufactures

discovers with the B.C. Millary of

Manuales is also broken at the rewhest

Of course to under the harnest the screend the oracles; B skd respect to now some exhibite daying lest summer's Claymen. Charge Web site could peck and the

window completely - A two for victory work our north WAR, and posture are are and manda from for North America. The manufactures amount has been then

year stone August 1996, and the color mode was released and before Christian The product some side for the tone and with the right purh, could turn out to be a Favr Cometon vaccous store 50

(at apprintules on their probables and to the rook had an alcoholistics on

62 WHOLESALER February 1997 - recommendation

ONE AND ONLY





Canadian Computer Wholesaler Announces

CCW TEST LAB: the only Canadian test facility ve one, and only one, choice - CCW TEST LAB

SCHEDULE



Western Office: 604-



PC oriented dealers and, to a lesser extent, manuduring 1997. (The operating system organic plans MMX is sare to ranke a soluri, despute the IN MMX maps. However, I'm betting assessed

This seems a take too much like IBW, MWAVE Assetch Records of years -- all relatively republishers products. I also expect MMX to some major applications' PPU performance degradation under MMX.

And, drawing appropried delays on Date Fa follows on Klemath Cranton will approach - if not assuming - the manstrage. At any type, our lesis have preven without a doubt that MMX vivierus outserform samthat be clocked one MMV masses by an excess of about 15 per cost even on non-MMX-enhanced tribes, due to the chap's larger on-board crobe Indeed, 166MHz MNCX reviews soul to fall in the multile of the rock of non-MMV WOMEN Property

pyroprises majuritant news stories about MMX. Tend flaws. There remoters are doing double duty but this doesn't distinct my feeling that MMX reviews are going to be bot sellers

Packet Welting Atother technology that will be a but let in '97 is pucket-writing

tion - at once. With maket service, one can words "Save" file, to a

CD.P. to if it name a Stormy disk. The Long-sufferous Storms will be not MA WARD FROM PR. Televiney 1997 INC. Province Communication

CD Rs that are easy enough for more mortals to use. By the old of

Phase Winter (PD) strong (new as low as US\$299). I expect that tech-

Windows 97 hours soil undoubtedly appear well before the final Ake Power Quest's Partition Magic 3:0, that can convert FAT H parti-

hearing of the new ACM (Adequate Conference and Penns Interface) Version 1.0 spec associated in January by late), Microsoft and Tashaha. Merombalan, the "factors On" concert has an observe

White I've still surprised how many people chose to stay with Windows 1 x, given the amount of drawn in BAM and hard disk return durant 1996. I staff harbor a plantage of hone that PC overs will realize under Windows 3.s. It would be my party that many of these people

Office 97, which should be not by the name you read that will very likely he a recessful readure, and not rest because Corel's Office. Sinte war efforts (and the Lotus boosters) have lost some of their early I bappen to like the way Office 97 works, thy young to the

Covers PTP site and dewnloading a DOC' file with internet Explana 10 to our come eastly intercury. "DocChery," behavior. and I think others will too ... at least those who aren't functions with ceitagn on the solutive weeds of the Office tiffer. I've had over ed about min-revolts currents anderway at their effices in

MMX which employees sunophibogsly moralled and word safter than the administratorpsiaEnd Micrasoft Office Lightweight rotationis with CD-RDM

Caser to the end of the year ... and I'm better on a 1907 Thrown." of a '94 release - Windows NT 5.0 will start showing up, permantly

on servericed corporate desirage, but also as the OS of obsern for a support for multiple CPUs well-stated to the demands of amobies and multimedia toda. Now that Mesonia and DM bean backed overs from their early support of ranning Windows NT 5 0 on the Common Hardware Barleware Platform (s.k.s. FowerPC Flatform), there may

Of course, I'd love to be wrong. To man a presighter Macrosoft

Apple's Jan. 7 announcements that a farme Mac OS well run on Intel PCs. (not to member ReOS and the down of a Java-based upper OS potter to Windows in the last few vetervice packs alternative is likely to make a growing dear in the IS depart-

intranel-based workgroup environments become more common, movent to NT 4.0 for brough you't stem like such a blooding-edge step-(and compatible) planforms than Alpha chies, describe the fact that the represe about twee as fast for the same money. The NT model swisted the 32-bit PC market in centural - tax recovers to be supportably

Utilities

Pools will consum downloadour enough software over the continuyear to beach up their system configurations more than a few times Thus, the extensive of often-didneys "lister" software that includes ue to top the bestscher him.

Portables

I also thesk that nonthooks are due for their breacst year over foolsky weight Permann-hased units (preferably with MMX technology) with a human CD-ROM, 16MB of RAM, a 1GB+ drive, 256KB Lovel 2 Notebook users. Who pearly all want to out the 'Net, will also be more condutions for the full-duality sucho capability that is the keeps

Software broad audio, taleghers, Held-dublox such Jaz drives, 120MB flogous 2 Celle neclens \$50%

Peoplet Wintered CO. R.

Meca as Web asswers

buseword in dealery search early as well. The price-point for such waits is certain to drup well below the \$3,500 and up they currently Of course, past because certain lackastry analysts don't see a grow-

In this basiness, focus is all-engorises and, is the vendors our

really matter What you pick to your make (so fact, picking a non-munstream market segment in often a decaded adventage/i, an long so you It's the Field of Dreams Proceple of you build it, they will come Next tare the Automobile Industry to a menupher. Of

Graene Bennett to monaging editor at The Computer Paper, and is a



Fax (505) 476-6582 Internet http://www.stach-comada.com 20-5871 Marie Tiller Richmond, BC, 169-258, Tel. 869-279-6700 Fee: 4501-279-7707 ten. Att Aus. Mobber Grisse 129:529 Tel (600)419 Yell Fax (600)415 YEV

strukturenneg som February 1987 WHOLESALER 88

How to host a seminar SUCCESSIU



It seems that almost housing some kind of scores - latered screipurs, 'how to hold a semclients. However, unless someway are very Below me a few possure on how to plan

"Consider the old adage: WIIFM - What's In It For Me?"

 Make it coloratemal, and promotomal. atigned your event you have to remember the old where WEFM -- What's in h For Ma? Office your appropries readon informato day business. Only a very few companies

products and expect anyone other than their

sathon or professed excountry, can be a Community On The Internet' or 'How To Create Regardless of rube you choose to speak at your Who should not carrie? A sample provides an excellent opportunity daubase Prospective cheers will be more

mation, product information and relevant

press chapters. Most importantly have your played prominently on the kit folder so atten-

· Offer percent and try to offer environers added begaves in

provide Door prizes are a great agencies of

"Prospective clients will be more open to attending services. Offer products from your own

beviations can be the most enganger compoto be if you're bostop a small per-topolog

for custing cheets 'stock' or pre-printed

an educational seminar than sitting through a straight sales pitch." you can after widely desirable products or The alternate success and profitability of

service public relations from with offices

your man recourges even of they can't stand If you don't already have related orders possib-

cyled in your settings's topic - and dea't Spreet to follow up with a phone call.

evillations with your message posted mide

will definitely get your point across. If you're send as out a minis marking/fewer, to a large

tons specially designed. Use the apportunity and turn the modifier sets as ignitation(d) rec-

read puce recorporating both screens tovita-

· Fallow art with your attended to improve for the pest one. Ask for com-



Korca's KD Telecom

develops car-tracking NBI - Are you afmid of havene KD Telepom said it has succonfelly developed to satisfied tion of the current paying service system. In KDT's sets-theft cur

stsushita develops LS-120 external disk drive

(MR) - Managheta Physics The street in designed to want material med by BMI com-

estibles and NEC commeters 123MB of statute state on t see backward compatible and Ripps disks, making the system

the automobile

searly police stations, making ducted goatly with the police in

systems commercialized in the KDT's system is far more cost effective in that it axes the exac-Stell a Company spokesomon

course system in the U.S.

Matamakira-Korobski Electrones tor recordy your off its informanew company, Imation Corp. The new drive is priced at DNS145 and well be available in

Meanwhile, \$1 Carp, prabo the several half of 1997, which is cars through wiseless communitracking system as composed of a

pugging subscribers. The user is control station, small-stag car ter-

cial sound sensor The sensor. which will be set off by the stakes our easily doctremakable



car theft as becoming an increassend out strong, electric radio angly scrious crane in 1995. about 57,000, or one per cent, of Konta's 5.7 million necessaries (KMT) and Namy Mobile



ook that our Web el http://www.ccwmag.com



1996 HomeTax is available

(NB) to The Manuscope, Ortono-based sonoascod the 1996 Ready-To-File version of is Deadon income as software is made corner with a new conversion

the laternet, users one upgrade

Samtack Computer launches graphics/video accelerator (NB) - Sunteck Computer Inc. of Minkham. 5933 graphovideo accelerase. Designed for

Ltd., manufactures the accelerator card. Both using PAL or NESC Olorit American telestwere of the Pine Technology Group. The reg-

Sentura in at 1905) 940, 1880 Mitsumi Electronics Corp. announces 16X CD-ROM

ferwritten as well as consumer, who need a price of US\$240 "The demonds on inch form factor, which can be minimal either software applications grow larger and with a nec-year manufacturer's herited warmany Far more refurnation on the products.

"New sufficient productions can NMB to 190MB of data, CD-ROM names have enormous MPFG. never files to stream, and CD-RGM

"The Matsame 16X drive means no more this product will be very popular with both Of Ms looke at to got the negles, some dif-

Microsoft unveils beta internet Explorer script debugger (NR) - Microsoft Corp. to shipping beta too Ecology Knews officially in the Spring

copies of a sampt debugger for interact Explorer The package is a Web page debugpackage is billed as providing a debugging ger for Herspi (fers) and VillScript (Visual pore surbors to beyone, edit, and debur some and driving scripted Hyperteet Merkey Laned HTML mass. The animate is at heal? sware (HTML) pages from Microsoft Jenning

nk.let Refill Kits

That work Mess caused by old style accordion bettle calibrated syrings. If

a carrindac has problens we've deligred UP Cuppe. Epigo, IRM, Xerra, TI 600 more Vous way 199%, Upre still cover 59-70%, 49,000 refills sold since 1992. FREE Refill Guide & cross

reference with order EREE could amintance. Kits are shrink ween, ped - user sees contents, yield & instructions World word wascouts. Can Competition Art 27 (1) & (2) Okidata 400 OPC \$99 resuld, exchange, test print, agone filter, reset inst. 500 more on our

website below. Your label 5+ Ship. from stock same day VISA MAC IMAGE CONTROL 416-694-7509

SM WHOLESALER February 1997 And American company

C.I.T. Corporation 965 Bay Street Suite 950 Toronto, Ontario, MSS 2AS Toronto, Cintano, MSS 2/42 Phone 416-850-0110 • Fax: 418-860-1898 Toll Free 1-800-659-9749

CD Recordable Disks Magnetic Media ON STORE OF new 1997 v DLT tapes (19/20, 15/39 & 26/40) OMS supplies Tel-regule papelles Printable westcable CD's MONTAL

Please call Jon Galama Today for Pricing!!!

Open Text extends its Web search technology in the latest version of LiveLink

(NB) - Open Text Corp is new resolver new technology to extend the constitution of its open test search regime, a product sold on document management software for the figu-

time in the latest edition of Livebols Open Texa Corp. originally produced the Open Text search entrine only, noted Dovel Westberger, vice-proudent of strategic marlet me. Become the yearch campo way able to undergrad SCML (storded procedured mark-up language), reast of its initial amplicaa precursor to HTML (Aspertest mark-up lan-

In Jain 1995 Clean Text psychologic SGML and used pewserily in the cell utilities.

ServiceWorks Distribution Introduces Express line ServiceWorks Disarbosos Inc. has intro-



12 5-rach active-metrix celor screen, a Person 100/130MHz errorsus, unoror CD-ROMs, referred data transfer, bush-in speaker coscriptione and docking capabilidard 16MB of EDO RAM sograduable to 128MR RAM, 255KB of one benz SRAM

ServiceWorks Disambusion Inc. is as

According to Washetzer, the latest ed-

workflow: project collaboration, and the Levellink library Taken taresters the new fee-500 corporations, and at allowing and such to perform more tasks by themselves, walnut

the version 7 level and fally anargment issutrion can now create project juges "in a ser-Levelink p. proxhible on the Web at





From a world famous Casada's Largest leve

CD Storage Box Diskette Box Disk Cleaning Kit Screen Filter CPII Cooler Telephone Stand



Mouse & Mouse Pad CSA Power Bar Keyboard Drawer Hard Drive Carrier Fancy Joysticks Multi-media Speaker CD Classron Kr.

Computer Furniture iow nddress: 8510 - 3771 Jacombs Rd. Richmond B.C. V6V 2L9 effective from 12/22/96. Tel & Fax # remain the same. ANRELL GROUP ENTERPRISES INC.

Tel: (604) 279,2366 Fav: (604) 279,2369

makes. There is

them, and then take care of your

Are you working the Web? There's evident new short that

es of exposer reach for beginness, a

name on the internet or nepale

becomes For latter companies.

one to rave there a hand when it comes to making the Web a place

cated on the technology. Many

too expectors as her planers.

senten has conficuence matomers that you have the confibe all you could do up the B is also a road also to both

it should do - could's baseness were very few expens who knew pounch! in in Interest export. The technology burner is pres preferations Software in

range of buraness solutions for perferences. Some software can

Conside your pass houseon -- the William There is empoy to be made in this being way world of the

strought and reasons duly business occurres with ward-Ignorace. We are just up the purity



. Up to 10 de parales per landing · Makes popular practiceded . Hors one or rains Master CD's . Simple Microsoft" Windows, one class start operation . Built is data ventication and automated easily control a White from conted to mode confirmation · includes dedicated application software for Microsoft' Mindoos codicated application software for Microsoft'

a The impact spins for those features

ABITE ENTERPRISES LED +1250 100 Change Sent Recover: \$ 0.000 172

human element is concerned

and BORAS systems and

ASID STIEFFERS HE STEEL STEEL CONTROL OF THE PRODUCT AND THE PERSON NAMED IN 66 WUNDER FREDERING 1997 AND DESCRIPTION



Larry Elchesen has new job Larry Behesen, providing of Instant Micro-Incore Micro Asia-Popfic, and it relocable

to Hone Kons. In this new position, Eichesen will be responsible for developing systems to mee, including building palaspooling with sender and universer partners as well as MINNER ROUGHFROM, SING the portropy

eight ween, he has been the draving force behind begins Micro's growth straugery to number one merket share in Consda in 1995.

Driving Ratiotics was provingly response-

letForm CEO is now a director for FrontLine Technology

He is never less and CEO of Ottago's letForm Corp., a software vendor in the electronic

Kelly has held paymon, with DVS

Diverbation life , Nebu Network Core and Assecution, Pakraca Tecknologies Inc. Associal International Inc., Operation Online

Informix adds new manager Morres Solware (Conada) Inc. in Ottowa

development manager. Public Sector and

torner business and ments and employment-

seer, Gamer Group County, She has beld more posterous with Income Security Program

Maire Kushner goes to Xerox Yerra Canada Lat has appeared Marra general runnager of Reduce Inc. Caracta.

Fulcoum CEO resions post (NR) - Prov Red obed Strangal object of common and find will stev in his sob until a

PictureTel picks president

1991 as you-provident of its new Personal

ersk 10-14 Call (408) 986-8840

The Eth Appropri lama Office Show

BCI's Estabase & Client/Server Wer

Fax (508) (70-1992) ett 10 - Calcary April 15 - Otreo April 17 - Monkrea April 22 - Toronto

TIAC Board of Governors



WHOLESALER AV

Are Resellers Ready For Cyber-Shopping? consumer either orders and waits or moves

burned makes the sale is obscorby the

Most distributors, software communica-

their product line. Many local retuil dealers. have Web viter that are busically marketing

estions The Computer Paper, Toronto. Consumed. Outline More! Others Company's and the Computer Princes's cargreen that Web over one starting to happen

Recently, I took a look as a muratur of

viders have Web pages.

Communications."

of products, and in these cases, the Web use-The First Specific - Series Specific

an armal selling mechanism to have computers on Box big factors in the success of coher-retailing I believe that full-fireland coulons

Meny resellers as yet most operationed to do its requires a fine

puffing creds cards out unto prhompace. in physical sence, computer poulog as to points to come may, a namely of the elebecause companies, by their nears remain

"With all those craces in glace, 1996 could shape up as the year on-line shapping takes off. The problem is that retail marchants who was ustill then tower have that is hard to crack. Any retailer who's not in the name by Overteen 'If will have a very difficult time nations must show end market shere," said Scott Smith, an electronic commerce available at Jupiter

> Tex Brank Considerations If a company hans a company favor

till is no PSD According to provinced

higher shipping charges, but it can be a fac-

Precise and enventory are come to be

er, so retriken who don't

Cohor-Shounder Still Instituted

space can be so tedans on fighting cross

states their still here an concretate to reliably. Once purposes stores are syst-

anafication. The consumer is required to The other rougher has racer cotices

namer's order and have it does-shoped

suppliers will rates the difference between

On-line shooms; will still require retailers

Buildian Troffic And Levelts

--- Who Whisk Jan. 6, 1917. chose. As computers become sampler to

Danz Akler is Publisher of

COAST TO COAST

Acer OPEN ATY Can





ALC MICRO (Asia Link Computer Inc.) is prood to announce the Grand Opening of its Vancouver and Montreal offices.

med with its Torcoto and Halifex offices, ALC MICRO is now serving Canadians from coast to coast ALC MICRO offers a full line of ActrOcco products.

From bare systems to a wide range of components and accessories. As a matter of fact, ALC MICRO was the first AcerOPEN distributor to bring in the most popula

Acer 625 2x CD-ROM, And not long ago, ALC MHCRO was again the first Acer OPEN distributor to bring in Acer's 33.6 Kbps Fax Modem.

Today, we proudly take this opportunity to announce the safe and happy landing of Acce's state-of-the-art AcerLAN networking products - an easy and most affordable octworking solution

Call us now to find out more about Acer's latest products.









Sceptre's Soundx™ 4000 is cool

New processor technology regulates "body" temperature just like Brutus --our monitor lizard

and when to slow down so he doesn't overheat

Sounday's Sounday'' 4000 modular, multimedia peak performance.

An introvative Intel Pentium[®] propessor design makes for more efficient consumption knowing when to draw energy and when not to. Longer bettery life and less

The Savedy" 4000



Soundx" 4000

. Less than 7 lbs • KK CO ROM . 12.1" TFT, SVGA display . Fully modularoad

128 Bit graphics apprinted

. 9001 Cersified Manufacturer to the season of the said

TRAVEL CLUB Justing at 21 Big